

FIRING/NONFIRING DATA

For use of this form see USAIC Regulation 350-19; the proponent agency is DPTMS

TO: Chief,
Range Division,
Directorate of Plans, Training, Mobilization and Security
Fort Benning, GA 31905

Date: 25 July 2011 Log #03-21-11

Range: Camouche Range

Title: OSUT Gunnery

Problem No:

THRU: 194th AR BDE
S-3

FROM: 5-15 CAV, 194th AR BDE
S-3
SQDN Master Gunner

SECTION I, TYPE OF TRAINING

a. Live Fire b. Non-live Fire CP/Controller Coordinates: Tower 1063 9508

SECTION II, DEMOLITIONS/GRENADES/MINES/PYROTECHNICS

Coordinates	Type	Model/DODAC	Size of Charges
N/A			

SECTION III, WEAPONS/AMMUNITION REQUESTED

Coordinates of Weapons Position	Type Weapon/Model Number	Type Ammunition	Left Limit	Right Limit
See Weapons And Ammo Enclosure	See Weapons And Ammo Enclosure	See Weapons And Ammo Enclosure	See Weapons & Ammo Enclosure	See Weapons & Ammo Enclosure

SECTION IV, LIVE FIRE EXERCISES Attach the following:

- Scenario of training to be conducted:
- Sketch of area:
- Risk Assessment:
- Attach FB Form 350-19-2-E-R if Mortar or artillery is being fired:

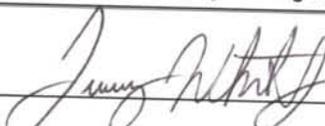
SECTION V, NON-LIVE FIRE TRAINING

Training area(s) to be occupied:

- Scenario of training to be conducted:
- Sketch of area(s) to be occupied:
- Risk Assessment:

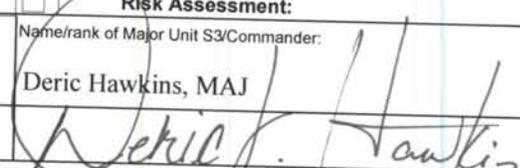
Name/rank of requesting officer:

White, Quincy E. Jr. SSG



Name/rank of Major Unit S3/Commander:

Deric Hawkins, MAJ



SECTION VI, FOR RANGE DIVISION USE

TO: 5-15 CAV, 194th AR BDE

DATE: 10 Nov 11

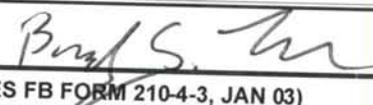
FROM: Range Division,
Directorate of Plans, Training,
Mobilization and Security
Fort Benning, GA 31905

- a. Roadblocks to be closed:
- b. Road(s) to be closed/road barrier locations:
- c. Remarks:
- d. This approval expires: 9 Nov 13

K: 5,12,13,16,41,44,45. O:9,18

ELRF (eye safe LASER range finder) will be used with the weapons listed above. LASER warning signs will be in place.

Chief, Range Division
Directorate of Plans, Training, Mobilization and Security



Carmouche 5-15, 194th OSUT Gunnery Target List Enclosure (Log #03-21-11)

Firing Positions	Weapons	Ammunition	Targets
Left Side VTCE Baseline: 1070 9514 to 1070 9511	BFV M242	25mm M793, M910	A: 305, 306, 307, 313, 314, 315, 316, 317, 318. M: 301, 302, 303, 304.
Center VTCE Baseline: 1070 9511 to 1070 9508	M240	7.62mm Ball/Tracer	Grp: 1, 3, Pop-up/Stick-up Targets Center of Range @ Aprox 300m.
Right Side VTCE Baseline: 1070 9508 to 1070 9504	M2	.50 cal Ball/Tracer	A: 305, 306, 307, 313, 314, 315, 316, 317, 318. M: 301, 302, 303, 304.

Carmouche 5-15, 194th OSUT Gunner Weapons & Ammo List Enclosure (Log #03-21-11)				
Firing Positions	Weapons	Ammunition	Left Limit Mils, Grid Az	Right Limit Mils, Grid Az
Left Side VTCE Baseline: 1070 9514 to 1070 9511	BFV M242	25mm M793, M910	1225	2005
Center VTCE Baseline: 1070 9511 to 1070 9508	M240	7.62mm Ball/Tracer	1175	2040
Right Side VTCE Baseline: 1070 9508 to 1070 9504	M2	.50 cal Ball/Tracer	1160	1960



ATZK-BAEZ

01 October 2011

MEMORANDUM FOR RANGE CONTROL

SUBJECT: One Station Unit Training Live Fire Gunnery Scenario

1. The following request outlines the request of 5th Squadron 15th Cavalry Regiment to conduct live fire exercises that incorporates six M3A3 Cavalry Fighting Vehicles, four HMMWV's with mounted M2 .50 Caliber machine guns, and eight M240B machine guns fired from the Bipod position. This exercise will be conducted on Carmouche Range as a part of the 19D POI requirement.

2. Scheme of maneuver:

- a. (Phase 1) Day one of the Gunnery exercise will be a setup day consisting of, movement of Cavalry Fighting Vehicles to the range by HETT, Cadre members will then download the CFV's and move the CFV's to the left side of the Baseline (firing line). The CFV's Hull and Turret will be oriented on the left range fan. All track and bolts will be lubricated, prefire checks, and bore sight procedures will be completed and a green flag will be displayed (all clear). The Master Gunner will verify each vehicle on the firing line has completed all steps. If necessary the Master Gunner will conduct live fire training for the cadre members to become certified. The HMMWV's will road march to the range by cadre members and will be placed on the right side of the Baseline (firing line) and the weapon mounts will be prepared and mounted on top of the vehicles. The vehicles will then be secured and a guard force will be emplaced.
- b. (Phase 2) Day two the warriors will be transported to the range via bus and will receive a Safety Briefing and a Conduct of the Range Brief by the RSO. The non firing platoons will be the range support and will begin issuing M2 .50 cal's with spare barrel and M240C's with spare barrel, also placing M240B's on the center of the Baseline (firing line). Ammunition will be broken down and ready for pick up. The firing platoons will assume the proper uniform for the vehicle they will be firing and then file through the ammo pad and receive their ammunition. CFV fires will receive 210 rounds of M793 TP-T and 400 rounds 7.62mm per four fires. M2 and M240B fires will receive one can of .50 cal and one can of 7.62mm. Once the warriors have moved to their firing vehicles the cadre members will instruct and supervise the

warriors through the loading process. If necessary the CFV's will pivot while keeping the the gun tube up and down range to reach HE upload position and upload the ready boxes then pivot back to the previous position so warriors can enter the turret through the turret door. At this time the range flags will be changed to red and green (ammo on board but not loaded). This will also be the reloading process for the warriors waiting to fire. Once a hot status has been issued, one by one the warriors will cycle through three stations; M2 HB MG, the M240B, and the CFV. The M2 HB MG station from the Right Side VTCE Baseline will utilize targets GRP 5, A315 and A317. The M240B station from the Center VTCE Baseline will utilize targets GRP 3 and GRP 7. The CFV station from the Left Side VTCE Baseline will utilize targets GRP 1 for the M240C and targets A305, A306 and A313 for the M242. Cadre members will supervise loading procedures and changing barrels as necessary. Once each platoon finishes that set of vehicles, they will swap rolls and fire the other weapon systems.

- c. (Phase 3) Day 3 The warriors will receive a Safety Briefing and a Conduct of the Range Brief by the RSO. The non firing platoons will swap rolls with the firing platoon and do the same process as the day prior.
- d. (Phase 4) Day 3. Once all firing is complete and the training objective has been accomplished, all weapons will be cleared each day by the RSO and the CFV's will be cleared by the RSO and Master Gunner. The track and bolts will be removed from the CFV's and turned back into the Armor. At this time the range clearing procedures will begin so the unit can clear the range and all vehicles will be moved to the next training site.

3. Safety

- a. Unit will use the standard 9 line MEDEVAC in case of illness or injury. Call 911 and determine what type of evacuation in the most appropriate for the injury. MEDEVAC will be IAM MCoE Regulation 350-19 and USAIC 40-2. Landing zone for MEDEVAC aircraft will be established prior to use and will be marked appropriately. Using units higher Headquarters and Range Control will be notified in event.
- b. There will be no de-linking or re linking of any ammunition. Any ammunition that has been de-or re-linked in considered nonstandard and is prohibited from the range.
- c. Weapons/Ammunition malfunction reports: When a malfunction is experienced, the OIC or Range Safety Officer will suspend all firing and immediately notify Range Control. Retain the weapon and all components and ammunition involved in place. An investigation is required and will be conducted by DOL.
- d. When an incident occurs resulting in an injury, an immediate report will be made by the OIC/RSO of the units training to range control. The following will be furnished by the OIC/RSO to Range Control:

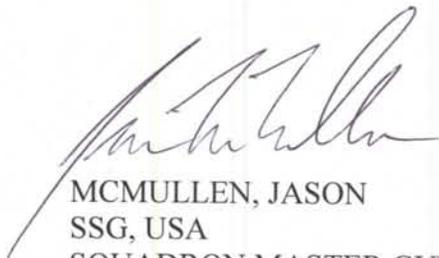
- (1) Designation of unit.
 - (2) Range by location
 - (3) Type of weapon involved.
 - (4) Type of ammunition involved.
 - (5) Brief summary of what happened.
 - (6) Personnel injuries and extent.
 - (7) Full Name, SS#, Rank and unit of injured personnel.
 - (8) Extent of property damage.
 - (9) Intentions regarding an AR 15-6 investigation.
- e. Unit will maintain continuous contact with Range Control at all times. If communications are lost the unit will go into a self induced check fire until communications are restored.
- f. Cease fire will be briefed in the safety briefing and the hand and arm signals will be identified along with other SOP procedures. CFV cadre members will monitor the internal frequency and the cease fire will be sent out over the radio.
- g. Hearing protection will be worn at all times once the range is in a hot status. Additional hearing protection will be provided for personnel missing their own and visitors.
- h. All weapon firers will be monitored closely on the ground and on HMMWV's to ensure weapons and ammunition stay inside the range fans. CFV firers will be monitored from inside the vehicle. The Cadre member will be in the Commanders seat and the student will be on the gunner's seat, so if there is an altercation the Cadre member can override the gun with the commander's override.
- i. Laser Warning Signs will be in place prior to opening range. **Range Safety Briefing will include hazards using lasers.**

4. POC for this memorandum is the undersigned at (706) 626-4128.

AUTHORITY LINE:

7 Encls

1. OSUT Gunnery CRM
2. Gunnery Target List
3. Gunnery Weapons & Ammo List
4. FB Form 350-19-1-E-R, AUG 09
5. Range Control SOP for Carmouche Range
6. Carmouche Range SADZ
7. FB Form 144-R



MCMULLEN, JASON
SSG, USA
SQUADRON MASTER GUNNER

MEMORANDUM FOR WHOM IT MAY CONCERN

SUBJECT: Standing Operating Procedures for Carmouche Range

1. PURPOSE: To establish Standing Operating Procedures (SOP) to be used during training on Carmouche Range.
2. APPLICABILITY: This SOP applies to all units/activities using Carmouche Range. All Officers in Charge (OIC), Non-Commission Officers in Charge (NCOIC) and Range Safety Officers (RSO) will be familiar with the contents of this SOP and all other applicable references.
3. REFERENCES:
 - a. AR 385-63 and DA PAM 385-63, Range Safety.
 - b. USAIC Regulation 210-4, Range and Terrain Regulation.
 - c. TM 9-1300-206, Ammunition and Explosives Standards.
 - d. FM 3-22.1, Bradley Gunnery
4. SCHEDULING: Each unit/activity scheduling Carmouche Range will prepare and submit the following documents to Range Operations, DPTM:
 - a. FB 46-R, Risk Management Worksheet and Daily Risk Management.
 - b. FB Form 210-4-3R, scenario, sketches, FB Form 144, and any specific enclosures as required.
 - c. Training guidelines: All training will be conducted in accordance with (IAW) this SOP, together with references listed in paragraph 3 of the SOP and FB 210-4-3 R approved by Range Operations, DPTM. Units are responsible for developing and submitting a new range packet, if requested training deviates from the standard range packet that has been developed by Range Division.
 - d. When scheduling, units will schedule the Range through Range Control.
5. ADMINISTRATIVE:
 - a. Using unit is responsible for daily cleanliness of the latrines prior to departing range. There is only one latrine which will accommodate male and female soldiers. Units will provide their own hand soap, paper towels, toilet paper, and trash bags.

b. Using unit is responsible for daily cleaning and removal of all trash and debris from all ammo points and range support facilities prior to departing range.

c. A red range flag will be provided to using unit by Target Systems Support personnel located at Carmouche Range. The range flag will be displayed on the pole at the entrance prior to training and must be returned to range support personnel prior to departing the range.

d. There is no portable water source available at Carmouche Range.

g. All range fires will be suppressed and reported to Range Control IAW USAIC Regulation 210-4.

6. GENERAL: Carmouche Range is a Bradley Fighting Vehicle (BFV) and Tank Range.

REQUIREMENTS: A specific operation 210-4-3R/scenario package will be prepared by the unit for Carmouche Range and approved by Chief, Range Division. All supporting documents, i.e., regulations, field manuals, TMs, etc. with an approved 210-4-3/scenario package will be on site. All visiting persons and civilian personnel will also be directly controlled by the OIC/NCOIC. Prior to training, all personnel will be given range orientation/safety briefing, to include location of dud areas, medical procedures, loading and clearing weapons, misfire procedures, emergency cease fire signals, etc. Only weapons/ammo listed on an approved FB Form 210-4-3R/scenario package will be allowed on the range. Prior to and after training, an ammo/weapons check will be made to ensure no individual or vehicle has any unauthorized ammo/weapons. Prior to vacating the range, using unit will ensure the range is cleaned to include latrines. All refuse generated, pallets, ammo boxes, food packaging.

7. MEDICAL: Medical personnel and equipment on site will be IAW unit POI and risk management worksheet risk level for the training conducted. MEDVAC will be IAW USAIC Regulation 210-4 and USAIC Regulation 40-2. Landing zone for MEDEVAC aircraft is located at grid 107953 and will be marked appropriately.

8. VEHICLE CONTROL: POV and wheeled military vehicle parking is located on Carmouche Range.

9. AMMO POINTS: There will be an ammo point. No weapons or open flame will be allowed within 50 feet of each ammunition point. Two bicarbonate fire extinguishers will be available at all times at each ammunition point. Ammunition Non-Commissioned Officer (NCO) will control issue of live ammunition and monitor at all times. All Ammunitions will be issued and turned in to the Ammunition NCO.

10. OPENING OF RANGE: Tasks for opening the range and occupying the site:

a. The OIC:

1. Signs for the range from Range Control.
2. Arrives at the range or training site before the unit.

3. Checks Communications.
 4. Arranges for backup communications for live-fire exercises.
 5. Briefs the safety officer, the evaluators, and the training units.
 6. Ensures that range equipment is present and operational.
- b. The NCOIC:
 1. Sets up any additional training areas.
 2. Supervises ammunition, targets, and administrative details.
 - c. The weapons system-certified range safety officer or NCO:
 1. Ensures no one brings ammunition onto a non-firing range.
 2. Supervises placement of vehicles in correct order for firing or training.
 3. Inspects storage of restricted or suspended ammunition.
 4. Inspects handling and lot numbers of restricted or suspended ammunition.
 5. Inspects medical and vehicle support.
 6. Gives safety briefing before all live fire events.
 7. Ensures barriers are closed prior to Live Fire.
 8. ensures that the range guards are posted and briefed on their duties.
 - d. The Master Gunner:
 1. Ensures that all DA forms 2408-4, Weapons Record Data, are up to date.
 2. Gives final briefing to Bradley crew evaluators.
 3. Ensures that the concurrent training site is set up.
 4. Arrives at the range or training site before the firing unit.
11. Conduct of Exercise: Tasks for conducting the exercise follow:
- a. The OIC:
 1. Controls live fire exercise.
 2. Maintains efficient throughput among units going through the course.
 3. Maintains all required communications.
 - b. The NCOIC:
 1. Supervises all details.
 2. Controls the movement of vehicles and personnel.
 - c. The weapons system-certified safety officer or Safety NCO:
 1. Ensure that the crew handles misfires IAW safety regulations.
 2. Observes for any safety violation.
 3. Clears each Bradley at the end of each exercise.
 - d. The Master Gunner:
 1. Ensures the range firing adheres to the appropriate gunnery table.
 2. Ensures that crews boresight and zero correctly.
 3. Conducts on-site remedial training as needed.
 4. Supervises Bradley crew evaluators.
 5. Helps safety personnel clear weapons when required.

6. Helps maintenance personnel identify and correct malfunctions.
 7. Helps the commander determine or verify alibi conditions.
12. Closure of the Range: Tasks for closing the range follows:
 - a. The OIC:
 1. Notifies range control that firing has terminated.
 2. Debriefs unit personnel.
 3. Ensures clearing of the range or training area follows local regulations and SOP.
 - b. The NCOIC:
 1. Supervises ammunition and target details.
 2. Ensures that range facilities have been policed.
 - c. The master gunner updates DA Form 2408-4 for each M242 fired.
 - d. The ammunition NCOIC:
 1. Ensures that only authorized personnel remove munitions from range.
 2. Prepares residue certificates required by ammunition supply point.
 13. BFV/Tank vehicle flags: Vehicles will display flag to show the vehicles weapon status. The following procedures apply:
 - a. Displays no flag: Vehicle has no ammunition on board.
 - b. Displays Green flag: Vehicle has no ammunition on board. Vehicle participating in dry/MILES training.
 - c. Displays Green and Red flags: Ammunition on board vehicle, electrical and manual safeties engaged.
 - d. Displays Yellow and Red flags: Vehicle has experienced a malfunction or misfire. Weapon pointed at the target area. Electrical and manual safeties engaged. If not, range safety personnel are notified.
 - e. Displays Red flag: Vehicle engaging target area. Weapon loaded, all safeties are off.
 14. Safety:
 - a. During Bradley Gunnery operations all BFV's will maintain communications with the tower at all times. If communications goes down all movements and engagements will cease fire freeze until communication is restored.
 - b. All commands come from the tower.
 - c. All engagements will be cleared and authorized by tower personnel.
 - d. BFV's will only fire at approved targets on the target list.
 - e. Proper weapon status flags will be present and visible while executing each phase.
 - f. If a malfunction occurs, all operations will cease fire freeze and the malfunction will be attempted to be fixed, if assistance is needed the Master Gunner will be notified via radio communication.
 - g. All weapon systems will remain oriented down range at all times.
 - h. BFV's that are preparing to run the course will be given the order to load or unload the ammunition by the tower.
 - i. Through the duration of the gunnery only one BFV will be allowed down range at a time.

- j. The emergency cease fire signal will be briefed during the range safety brief.
- k. An FLA with qualified medics will be present through the duration of the gunnery.
- l. All BFV's will be cleared onto and off of the execution line by a qualified master gunner.

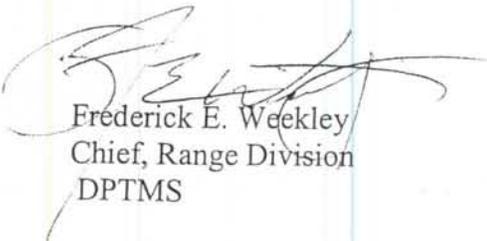
15. The point of contact for this action is Mr. Whitehead, Survey Tech, Range Division, Directorate, Plans, Training, Mobilization and Security, COMM (706) 544-6267.


BRAD TESCH
YA02, USA
Chief of Range Operations

22 AUGUST 2006

NEW FLAG POLICY FOR TANKS ONLY

1. DISPLAYING NO FLAG: VEHICLE HAS NO AMMUNITION ON BOARD
2. DISPLAYING GREEN FLAG: VEHICLE HAS NO AMMUNITION ON BOARD
VEHICLE IS PARTICIPATING IN MILES OR DRY TRAINING
3. DISPLAYING RED AND GREEN FLAG: AMMUNITION ON BOARD
VEHICLE WITH ELECTRICAL AND MANUAL SAFETIES ENGAGED.
4. DISPLAYING YELLOW AND RED FLAGS: VEHICLE HAS EXPERIENCED A
MALFUNCTION OR MISFIRE. WEAPON IS POINTED AT TARGET AREA:
ELECTRICAL AND MANUAL SAFETIES ENGAGED. IF NOT RANGE
SAFETY IS NOTIFIED.
5. DISPLAYING RED FLAG; VEHICLE IS ENGAGING TARGET AREA:
WEAPON LOADED, ALL SAFETIES OFF
6. DISPLAYING RED YELLOW AND GREEN FLAGS. **ALL SMALL ARMS
AMMUNITION HAS BEEN REMOVED FROM VEHICLE AND
ALL MAIN GUN ROUNDS ARE STORED PROPERLY. NO
GUNS LOADED AND ALL SAFETIES ARE ENGAGED.** VEHICLE
IS PERFORMING MAINTENANCE AND MAY POINT BARREL AS NEEDED
TO PERFORM MAINTENANCE. VEHICLE WEAPONS AND VEHICLE
STATUS HAS BEEN CHECKED AND CLEARED BY RANGE SAFETY
OFFICER


Frederick E. Weekley
Chief, Range Division
DPTMS

COMPOSITE RISK MANAGEMENT WORKSHEET

For use of this form, see FM 5-19; the proponent agency is TRADOC.

Handwritten: 20210311
 20210311

1. MSN/TASK
 OSUT Gunner
 2a. DTG BEGIN 20111101
 2b. DTG END 20121031
 3. DATE PREPARED (YYYYMMDD) 20110928
 4. PREPARED BY

a. LAST NAME
 White
 b. RANK
 SSG
 c. POSITION
 Squadron Master Gunner

5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS EFFEC-CONTROL TIVE?
	Vehicle Accidents	M	Obey posted speed limits HETs w/equipment 20 mph max. Conduct Safety Briefing before all movements with route, speed, and catch up speed.	L	M998 TM 9-2320-280-10 Troop Commander, ISG, Drill Sergeants, CIs, Range Cadre		
	Vehicle/Soldier Collision	M	Max 5 mph when Soldiers in area Ground guides visible in BIV sites Conduct Rollover Drills, TCs up when moving 360 degree scan, TCs account for all Soldiers	L	M3 TM 9-2350-252-10 Troop Commander, ISG, Drill Sergeants, CIs, Range Cadre		
	Bradley Rollover during unloading, Bradley Ramp Accident	H	Use ground guides and rehearse roll over drills Drivers use safety restraints Only cadre will drive vehicles when loading. Use horn to indicate use of ramp, TCs clear.	M	M3 TM 9-2350-252-10 Troop Commander, ISG, Drill Sergeants, CIs, Range Cadre		
	Accidental firing of coax machine gun could kill or injure soldiers when loaded.	H	Ensure COAX machine gun is unloaded and feed chute is empty. Clear coax machine gun of ammo before removing coax machine gun from vehicle. Make sure weapon on safe.	M	CFV TM 9-2350-252-10 Troop Commander, ISG, Drill Sergeants, CIs, Range Cadre		
	Cookoff of live round from coax machine gun could kill or injure soldiers.	H	If machine gun is hot, do not inspect tray, remove round, or recharge gun. Close machine gun access doors and keep closed. Driver must not exit through driver's hatch.	M	CFV TM 9-2350-252-10 Troop Commander, ISG, Drill Sergeants, CIs, Range Cadre		
	Soldiers may be killed or injured by moving vehicle or turret or TOW launcher.	H	Check top of vehicle. Make sure no Soldiers or equipment are in path of moving vehicle, turret or TOW launcher.	M	CFV TM 9-2350-252-10 Troop Commander, ISG, Drill Sergeants, CIs, Range Cadre		

13. OVERALL RISK LEVEL AFTER CONTROLS ARE IMPLEMENTED (Check one)
 Additional space for entries in Items 5 through 11 is provided on Page 2.

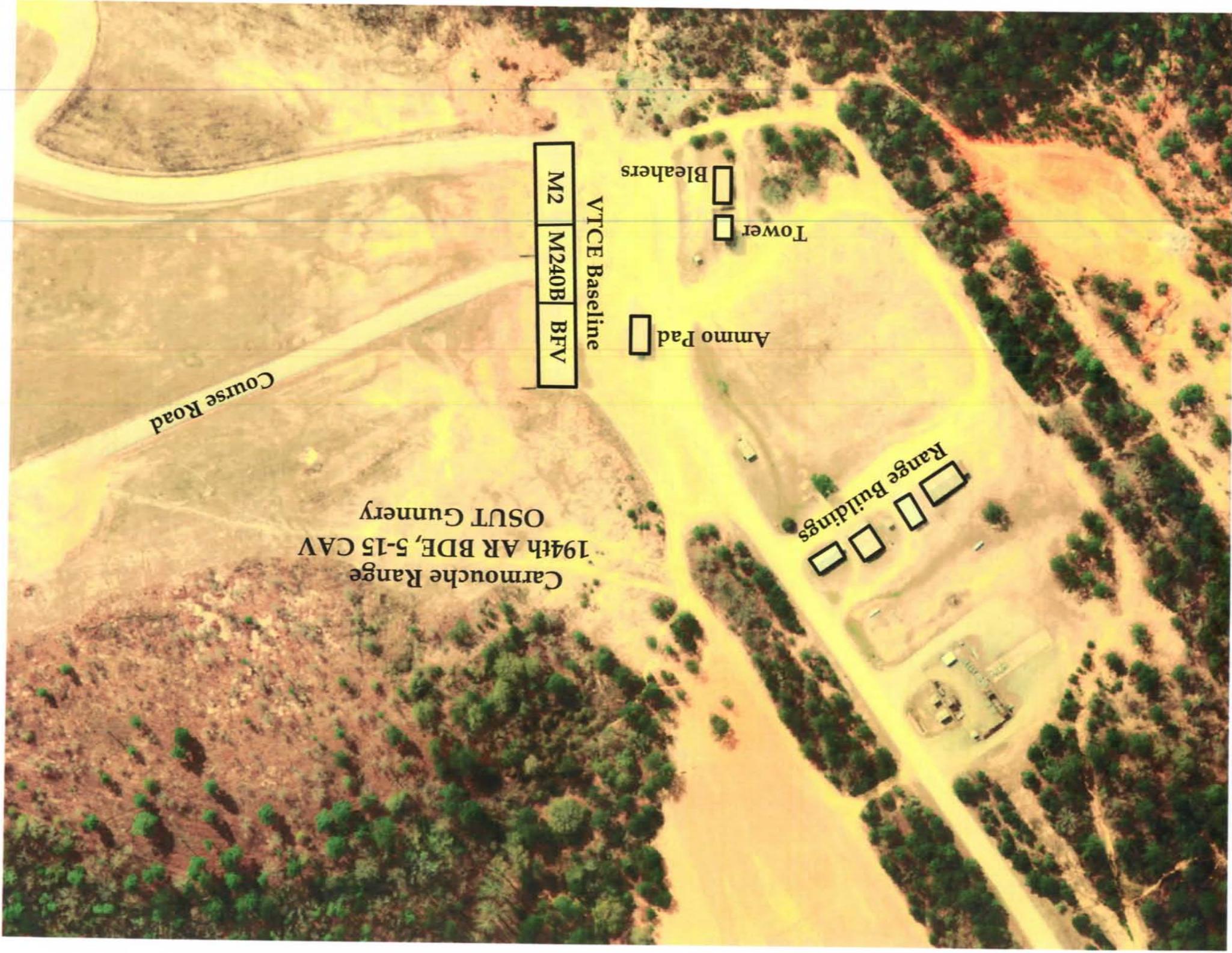
14. RISK DECISION AUTHORITY
 LOW MODERATE HIGH EXTREMELY HIGH

a. LAST NAME James
 b. RANK BG/O7
 c. DUTY POSITION Armor School Commandant
 d. SIGNATURE *[Signature]*
 3 Nov 11

5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS EFFEC-CONTROL TIVE?
	The CFV's NBC protection filters contain a known carcinogen if inhaled or swallowed.	H	Do not throw away damaged or unusable filters in trash. Wash hands before eating. Turn in damaged or unusable filters to the HWMO. If leak, wear gloves and nose and mouth filter.	M	CFV TM 9-2350-252-10 MSDS: BSRBJ NSN 4210-00-555-8837 MANF: ASCOA	Troop Commander, ISG, Drill Sergeants, CIs, Range Cadre	
	Unlatched hatch covers could swing and injure soldiers.	M	Make sure gunner's and commander's hatch covers are latched and secured.	L	CFV TM 9-2350-252-10	Troop Commander, ISG, Drill Sergeants, CIs, Range Cadre	
	Accidental firing can kill or injure soldiers. Weapon will fire if trigger pressed when switch in ARM.	H	Take care not to depress trigger switch accidentally. Make sure spring is installed on turret traverse handwheel handle	M	CFV TM 9-2350-252-10	Troop Commander, ISG, Drill Sergeants, CIs, Range Cadre	
	When circuit is broken between TOW lift motor and electronic assembly, TOW launcher can fall and injure	H	Stand clear when manually releasing brake.	M	CFV TM 9-2350-252-10	Troop Commander, ISG, Drill Sergeants, CIs, Range Cadre	
	Mixing barrel assembly and bolt assembly of the M240 may kill or injure soldier.	H	Do not interchange barrel assembly or bolt assembly from one machine gun to another without being headspaced/gaged.	M	CFV TM 9-2350-252-10	Troop Commander, ISG, Drill Sergeants, CIs, Range Cadre	
	A runaway CSW can kill or injure a soldier. Reloading a runaway CSW can kill or injure a soldier	H	Always keep machine gun pointed down range. Never reload it until it is repaired. Be sure weapon is cleared before removing it from vehicle/tripod mount.	M	M240 TM 9-1005-313-10	Troop Commander, ISG, Drill Sergeants, CIs, Range Cadre	
	A hot gun can kill or injure a soldier.	H	If 200 rounds were fired within a 2-minute period do NOT open the cover. Wait 15 minutes before clearing the weapon.	M	M240 TM 9-1005-313-10	Troop Commander, ISG, Drill Sergeants, CIs, Range Cadre	
	An M240 barrel improperly locked could cause injury.	M	Before firing, make sure barrel is locked tightly in the receiver.	L	M240 TM 9-1005-313-10	Troop Commander, ISG, Drill Sergeants, CIs, Range Cadre	
	Firing any weapon on the move can cause erratic firing that could kill or injure a soldier.	M	Firing on the move is not permitted.	L	M240 TM 9-1005-313-10	Troop Commander, ISG, Drill Sergeants, CIs, Range Cadre	
	Hot Weather Environment	H	Wet bulb checked hourly; ice sheets on site; work/rest/water consumption rate maintained; safety brief conducted on temp. and heat cat.; prior hot weather injuries marked	M	Unit SOP, AR 385-10 FM 4-25.11 GTA 05-08-012	Troop Commander, ISG, Drill Sergeants, CIs, Range Cadre, Buddy Team, Individual	

5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS EFFEC-CONTROL TIVE?
	An M2 with incorrect headspace and timing can kill or injure a Soldier.	H	Headspace and timing should be checked and adjusted before firing weapon, after assembly of the weapon, and after replacing the barrel.	M	M2 TM 9-1005-213-10	Troop Commander, ISG, Drill Sergeants, CIs, Range Cadre	
	A machine gun that has been in action but not cleared can kill or injure a Soldier when Soldier is in way of muzzle.	H	Clear the machine gun before anyone moves in front of the muzzle. Clearing consists of unloading the machine gun and visually inspecting weapon to ensure all rounds removed.	M	Range SOP Clearing Procedures	Troop Commander, ISG, Drill Sergeants, CIs, Range Cadre	
	Opening the cover of an M2 after use, while a cook-off occurs could kill or injure a Soldier.	H	Never open the cover on a hot weapon. Allow cool down.	M	M2 TM 9-1005-213-10	Troop Commander, ISG, Drill Sergeants, CIs, Range Cadre	
	Placing fingers in the chamber of any weapon can cause injury	M	Keep fingers out of chamber.	L	M2 TM 9-1005-213-10	Troop Commander, ISG, Drill Sergeants, CIs, Range Cadre	
	An M2 with ammo or with the bolt charged to the rear can kill or injure a Soldier when the backplate assembly is removed from the weapon.	H	Do not remove backplate until the chamber is cleared. Place the bolt in the forward position. Do not charge the weapon with the backplate removed. Stand to one side when removing the backplate.	M	M2 TM 9-1005-213-10	Troop Commander, ISG, Drill Sergeants, CIs, Range Cadre	
	Attempting to lift the M2 by the backplate in the upright position can cause the assembly to slip and fall on a Soldier. This could also cause the buffer spring to be released and injure a soldier.						
	Releasing the firing pin on an M2 with cocking lever forward could spring back forcibly and injure hand.	M	Do not attempt to release the firing pin with cocking lever forward.	L	M2 TM 9-1005-213-10	Troop Commander, ISG, Drill Sergeants, CIs, Range Cadre	
	Weapons Malfunction during live fire	M	Range Safety NCO qualified in weapons system instructing Soldier using weapon. Master Gunner on site to assess and correct serious malfunctions and prep-to-fire checks.	L	M2 TM 9-1005-213-10	Troop Commander, ISG, Drill Sergeants, CIs, Range Cadre	

5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS EFFEC-TIVE?
	UXO/Debris on range	M	RSO will conduct safety brief and include the handling of range debris and UXO that could be found on the range.	L	Cdr's Inbr et BR-1 TSP Troop Commander, ISG, Drill Sergeants, CIs, Range Cadre		
	Soldiers Smuggling Brass and Ammo off of the Range	M	All soldiers briefed that they cannot take ammo/brass off of the range. Turn in weapons to Holder overnight. Cadre conducts "shakedown" prior to leaving.	L	Cdr's Inbr et BR-1 TSP BDE SOP on AA&E Troop Commander, ISG, Drill Sergeants, CIs, Range Cadre		
	Lightning	H	OIC/NCIOC/RSO 1. Suspend all training during electrical storms. 2. Notify Range Control, Troop and Squadron	M	1. MCoE Reg 350-19 Troop Commander, ISG, Drill Sergeants, CIs, Range Cadre		
			of any lightning related incident 3. Control the students 4. Brief students on electrical storm plan and point out location to ground gear and open area		2. IAW PM 350-6-2, Standardized markings of Soldiers at risk.		
			to move to in the event of lightning. INSTRUCTORS WILL 1. Enforce that all students ground there individual equipment and don there wet weather gear.		3. 5-15 CAV policies and range operations. 5. Range safety brief to leaders.		
			2. Brief all students, training unit personnel, and cadre on lightning dispersal area.				



Course Road

Carmouche Range
194th AR BDE, 5-15 CAV
OSUT Gunnery

M2 M240B BFV

VTCE Baseline

Bleachers

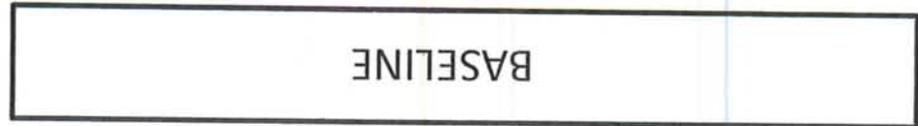
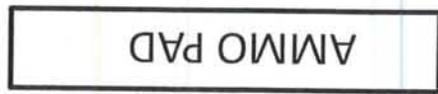
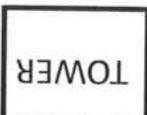
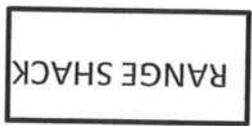
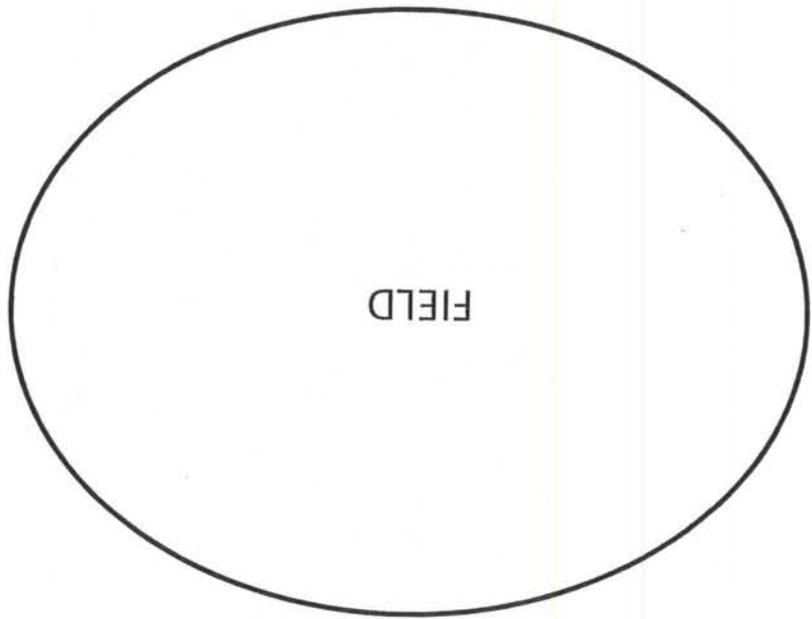
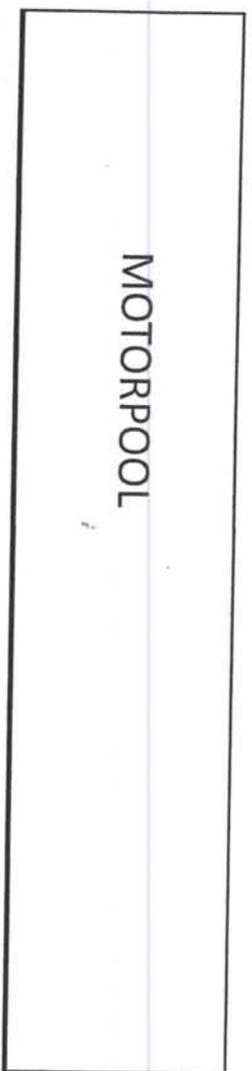
Tower

Ammo Pad

Range Buildings

CARMOUCHE RANGE LAYOUT

GATE
/ \

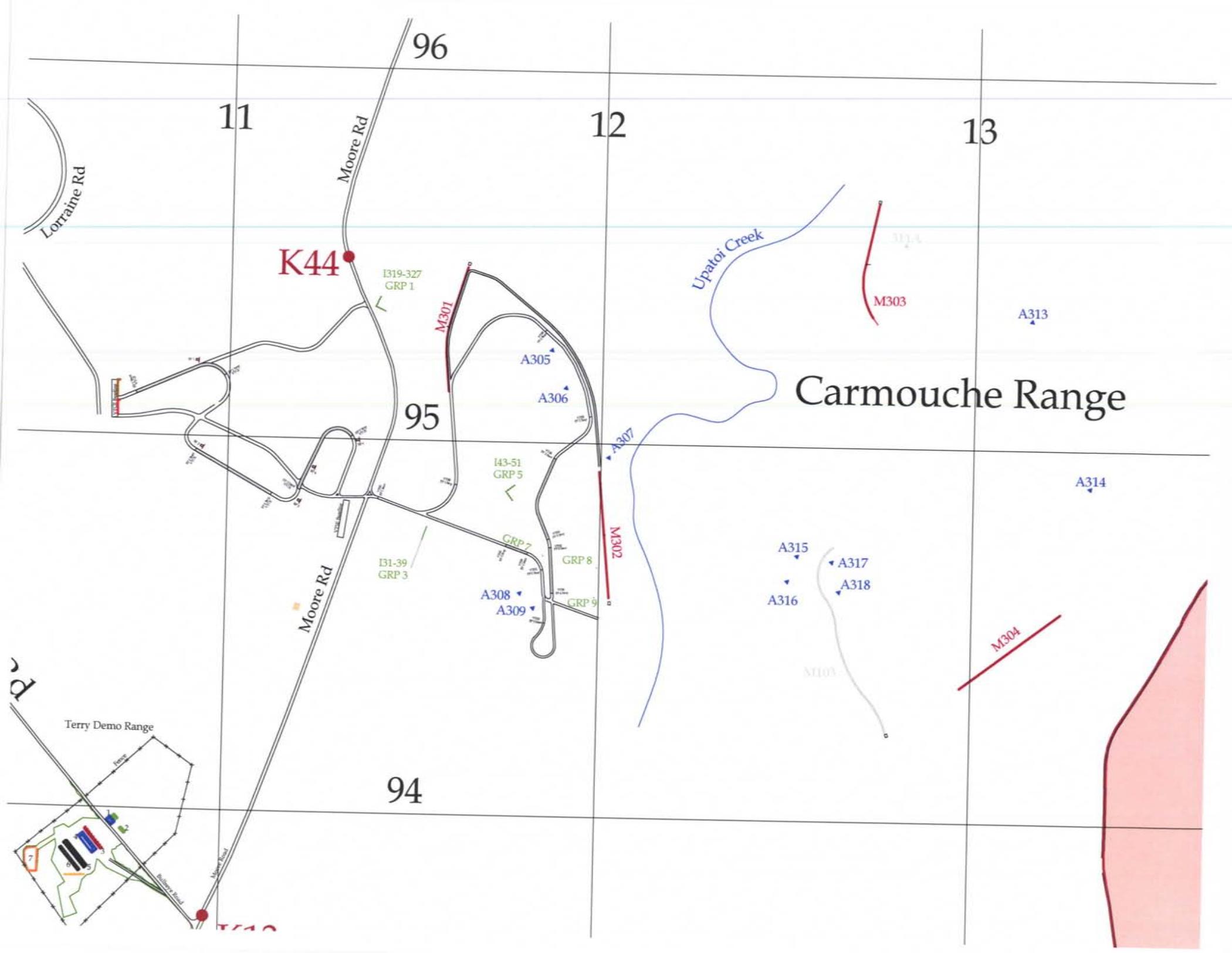


Carmouche 5-15, 194th OSUT Gunnery (Log #03-21-11) Roadblocks 15 March 2011

#	GRID	LOCATION	TYPE
K-2	163 883	Across Box Springs Rd 125m N. of its intersection with Buena Vista Rd.	Gate
K-3	153 894	Across entrance road leading to Concord OP 250m N. of its intersection with Buena Vista Rd.	Gate
K-4	144 901	Across entrance road leading to Hartell Bunkers 50m N. its of intersection with Buena Vista Rd.	Gate
K-5	117 920	Across Shamanski Rd 25m N. of its intersection with Buena Vista Rd.	Gate
K-7	095 935	Across Audernarde Trail 10m E of its intersection with Lorraine Road.	Gate
K-8	099 947	Across Bulls Eye Rd 50m E of its intersection with Lorraine Road.	Gate
K9	105 927	Across Audernarde Trail 30m W of Moore Rd, 575m N of Buena Vista Rd & Moore Rd intersection.	Gate
K-10	118 920	Across Buena Vista Rd at K-5 road block. (Road guard location).	Gate
K-11	103 922	Across Moore Rd 50m N. of its intersection with Buena Vista Rd. Entrance to Terry Demo Rng. (Road guard location)	Gate
K-12	104 988	South of tower on Stationary gunnery Range # 1	Gate
K-13	109 937	Across Moore Rd 10m N. of its intersection with Bullseye Rd.	Gate
K-14	113 998	Across Moore Rd 10m S. of its intersection with Lorraine Rd.	Gate
K-15	114 999	Across course road leading out of Ruth Range 50m E. of its intersection with Moore Rd.	Gate
K-16	190 003	Across Rinehart Rd 100m W. of its intersection with Box Springs Rd.	Gate
K-17	116 013	Across unnamed trail 15m E. of Moore Rd and 130m N. of Ruth Range tower.	Cable
K-18	122 033	Across Moore Rd. at the northern reservation boundary. Permanently closed.	Berm
K-19	121 023	Across unnamed trail 1400m N. of Ruth Range and 150m E of Moore Rd.	Cable
K-20	141 026	Across unnamed trail off northern boundary trail along railroad tracks 400m E. of Cox Creek ford.	Cable
K-24	219 968	Across Turrentine Rd at reservation boundary. Permanently closed.	Barrier/ Berm
K-25	180 923	Across unnamed trail leading to Shiloh Trail 10m W. of Box Springs Rd. Permanently closed.	Cable
K-26	201 968	Across Turrentine Rd 20m W. of its intersection with Boundary Rd.	Gate

#	GRID	LOCATION	TYPE
K-28	191 885	Across Whitson Rd 15m W. of its intersection with Cactus Rd.	Cable
K-30	193 916	Across Cactus Rd 150m N. of Pine Knot Creek. Permanently closed.	Gate
K-32	192 915	Across Shamanski Rd 35m W. of its intersection with Cactus Rd.	Gate
K-34	134 932	Across Buzancy Trail at its intersection with Rinehart Rd. Permanently closed.	Berm
K-36	162 882	Across Buena Vista Rd 50m W. of its intersection with Box Springs Rd. (Road guard location).	Gate
K-38	201 941	Across unnamed trail 35m W. of its intersection with the east boundary road. Permanently closed.	Cable
K-39	202 949	Across unnamed trail 15m W. of its intersection with the east boundary road. Permanently closed.	Cable
K-40	174 908	Across Box Springs Rd 30m S. of Pine Knot Creek.	Gate
K-41	192 944	Across Kennesaw Trail 30m W. of its intersection with Box Springs Rd.	Cable
K-42	194 956	Across Box Springs Rd 1200m N. of its intersection with Cactus Rd.	Gate
K-43	197 984	Across Box Springs Rd. approx 450m N. of its intersection with the Hastings Range baseline road.	Cable
K-44	113 955	Across Moore Rd on the N. side of Carmouche Range maneuver box.	Gate
K-45	116 964	Across Moore Rd 30m S. of its intersection with the old Ware Range course road.	Gate
K-46	119 979	Across Moore Rd 725m S. of its intersection with Americo Trail.	Gate

O-9	101 962	600m N of Carmouche Rng on right side of Lorraine Rd	Gate
O-18	093 979	800m N of Ware Rng Entrance on right side of Lorraine Rd	Gate





RECORD OF ENVIRONMENTAL CONSIDERATION (REC)



EMD Number: 1123021

Project#: M7050

Project Title: Convoy Training OPS, Convoy live dry fire lane. (FY12)

Description of proposed action:

Conduct a convoy dry fire exercise, blank fire exercise and live fire exercise. Weapons and machinery to be used will be M16 A2/A3/A4 ball and blank, M249 saw blank fire only, pneumatic simulators, L601 grenade simulator, HG smoke.

Project Location:

Carmouche Range

Amount, Description, Location of Disturbance/Digging:

None

Number/Types of Vehicles:

5 ton vehicles, HMMWV's

Number of Personnel:

Approx 220 soldiers per training event

Type of Ammunition:

See project description
Live

Number/Types of Trees:

None

Size of Project Area:

Duration of Action: Start: 10/1/2011

Stop: 9/30/2012

Proponent: stacey.ballesteros 706-545-5677

Organization/Unit: Range Division

DECISION: Concur with conditions

This Action qualifies for a Categorical Exclusion I-3 of Appendix B, (32 CFR 651)

(I-3): Intermittent on-post training activities (or off-post training covered by an ARNG land use agreement) that involve no live fire or vehicles off established roads or trails. Uses include, but are not limited to, land navigation, physical training; Federal Aviation Administration (FAA) approved aerial overflights, and small unit level training.

REC APPROVED FROM 1 OCTOBER, 2011 THROUGH 30 SEPTEMBER, 2012

Noise

Conditions:

Ellis Leeder (706 545 7576), 8/22/2011

This is normal training operations that must be conducted. If there are any noise complaints received, the Environmental Management Division IONMP and or POA programs will investigate by determining if the noise was detected by noise detection monitors, and then recommending operational noise mitigation actions to the appropriate personnel for the training actions. In accordance with the Army's policy on environmental noise management, all efforts shall be made to minimize noise annoyances to the highest extent practicable with training operations without interfering with the proposed missions. Please follow the fly friendly program avoiding no fly zones. Please follow good smoke management practices not allowing smoke to travel off Installation boundary. If any assistance or a copy of MCoE Regulation 350-19 is needed please feel free to contact Ellis Leeder at 706.545.2400 or email ellis.leeder@us.army.mil

Cultural Resources - Archeological

None

Edward Howard (706 545 1898), 8/18/2011

Natural Resources - RCW

None

Michael Barron (706 544 7080), 8/18/2011

EMD Number: 1123021

IJO# M7050

Project Title: Convoy Training OPS, Convoy live dry fire lane. (FY12)

CWA - Training

Conditions:

Jesse Taylor (706 545 0276), 8/30/2011

Environmental Review: Caution within training areas and motor pools should be taken to protect all nearby waterways (including perennial, intermittent streams and wetlands); as well as ground surfaces and any other sensitive areas in the vicinity of the training areas. Potential spills/releases from this activity that may occur before and/or during the FTX include: 1. Discharge and/or improperly disposal of oil or hazardous substances into or upon land, water, or into ground water areas from storage, handling and/or transportation of hazardous materials/waste; 2. Vehicle/equipment/generators leaks; 3. Fuel loading/unloading/refueling operations; 4. Field mess facilities/equipment/operations, and/or 5. Ammunitions /explosives (as applicable, before and/or during the FTX).

General SPCC Requirements: Ensure all hazardous materials are properly storage to prevent spill/discharges, to meet safety requirements for storage, and that containers are not exposed to the weather. Have adequate spill response supplies available during exercise for any spills that may likely occur. Use drip pans under vehicles and provide secondary containment for any fueling activities and hazardous material/waste storage. Locate all refueling operations and storage of hazardous materials/waste away from waterways and sensitive areas. See attached section on prevention procedures and CHECKlist (Figure 6.9.1) to be used during training exercise to comply with SPCC plan requirements. Ensure all wastewater from field mess equipment/operations particularly those involving oil/grease are collected and dispose properly. Do not discharge any wastewater into storm drains or dispose of oil/grease waste directly into land.

General ISCP Requirements: In the event of a spill/discharge -- notify Range Control by radio or call 544-6291, and they will notify E-911 for Fire Department/HAZMAT Team assistance and/or notification of the EMD office (Spill Beeper 706-317-6584). As appropriate, and if personnel are trained -- REACT to minimize spill damages. Submit a spill report to the EPMB Spill Program Manager (use Spill Response Report attached). All spills reaching navigable water must be reported immediately. The unit is responsible for the final cleanup of any spill during this exercise. Coordination with this office is required for clearance of the site.

SPECIAL NOTE: See 2010 ASP SOP Training and Deployment.doc for further training requirements.

Hazardous Materials/Waste

Conditions:

Dudley Carson (706 545 7570), 8/26/2011

Considerations for Field Training Exercises and Range Operations

1. Appropriate precautions must be taken to prevent hazardous material spills. Have adequate quantities of spill response supplies on hand. If a spill occurs use notification procedures as outlined in the Fort Benning Hazardous Waste Management Plan. Contain and clean up spill according to guidance provided by the Environmental Protection Management Branch. Any waste generated must undergo a waste stream analysis to determine appropriate management requirements. If any hazardous waste is generated it must be managed in accordance with Federal, State, Army and Fort Benning regulations.

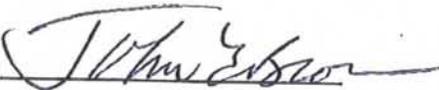
- 2. Ensure personnel know the correct procedure for handling misfires at the range:
 - Closed containers (ammunition can marked 'MISFIRES") will be used for the collection of misfires at each firing range.
 - The MISFIRE container will stay closed except to add or remove misfires.
 - Misfires SHALL NOT BE COLLECTED in any open container or cardboard box.

All excess, unused munitions (including smoke canisters) must be returned to the Ammunition Supply Point (ASP) after the range operation is complete. Defective, misfired, or otherwise unserviceable munitions may be destroyed on the range, as part of the training exercise, in coordination with EOD.

A dud shall not be removed from the range; it will be marked, called into range control and will be properly disposed of by EOD personnel IAW/MCOE Reg 350-19, dated 23 July 2010.

- 3. Rubbish, empty containers and other waste shall be removed from the training area after the exercise. Contact EPMB for detailed information on the proper disposal of waste products resulting from the exercise.
- 4. Contact POC for questions or additional guidance.

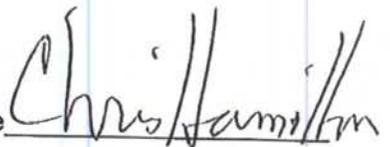
Signature



John E Brown
NEPA Program Manager

Date 01 SEP 2011

Signature



Christopher E. Hamilton, PhD
EPMB Chief

Date 1 Sep 11



DEPARTMENT OF THE ARMY
HEADQUARTERS UNITED STATES ARMY MANEUVER CENTER OF EXCELLENCE
1 KARKER STREET
FORT BENNING, GEORGIA 31905-5000

REPLY TO
ATTENTION OF
ATZB-SO

10 November 2011

MEMORANDUM FOR Commander, 5/15 CAV, Attn: SSG McMullen, Fort Benning, GA
31905

SUBJECT: 19D Weapons Familiarization Firing on Carmouche Range Course Concept and
Safety Review

1. References.

- a. One Station Unit Training Life fire Gunnery Scenario, 01 October 2011.
- b. Army Regulation 385-10, The Army Safety Program, 24 August 2007,
- c. Army Regulation 385-63, Range Safety, 19 May 2003
- d. Department of the Army Pamphlet 385-10, Army Safety Program, RAR 19 January 2010
- e. Department of the Army Pamphlet 385-30, Mishap Risk Management, RAR 01 February 2010
- f. Department of the Army Pamphlet 385-63, Range Safety, RAR 12 May 2009
- g. Field Manual 5-19, Composite Risk Management, August 2006

2. Document received on 07 November 2011.

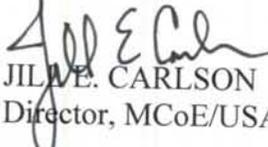
3. Concur w/comment.

- a. Concept papers need to accurately reflect the end state and purpose of the exercise. This is a weapons familiarization and not a gunnery exercise.

ATZB-SO

SUBJECT: 19D Weapons Familiarization Firing on Carmouche Range Course Concept and Safety Review

4. Point of contact is Mr. Michael W. Risher II, MCoE/Fort Benning Safety Office, Comm. (706) 545-8278, Govt. Cell. (706) 604-7249, michael.w.risher.civ@mail.mil


JILL E. CARLSON
Director, MCoE/USAG Safety

